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The present invention relates to a heat exchanger with a leakage vent, and more particularly to a fully brazed heat exchanger having an arrangement preventing the two media inside the heat exchanger from mixing in case of leakage. The heat exchanger comprises plates having a pattern of grooves (4, 5), and inlet and outlet connections (1, 6). The plates are placed in a pack and brazed together so as to form separate channels for two media between alternating pairs of plates. According to the invention, a separation zone (14) is created around the connections, so as to block off the medium that is not to reach the respective connection, whereas the other medium can flow on by. A leakage vent (2, 7) to the exterior is provided in the separation zone so as to allow detection of any leakage.

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